

Appl. No. 10/652629
Supplemental Reply to Office action of 9/1/2005
Page 3

IN THE CLAIMS

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An airbag device for a vehicle comprising:
 - a bag housing case adapted to be disposed below a rear end of a bonnet in proximity to a bottom portion of a windshield of the vehicle, the bag housing case having an opening and a cover mounted to close the opening, the bag housing case further having defined therein a main housing space and a sub-housing space separated from the main housing space and located adjacent to the cover at one side of the bag housing case;
 - a first airbag housed in a deflated, folded state within the sub-housing space of the bag housing case, for opening a the cover of the bag housing case from the one side thereof by an inflating force of the first airbag when inflating;
 - a second airbag housed in a deflated, folded state within the main housing space of the bag housing case, for mitigating an impact on an obstacle by inflation after the cover is opened;
 - a bag pressure release mechanism for opening the inflated second airbag when an internal pressure of the second airbag reaches a predetermined pressure so as to release gas within the second airbag to the outside;
 - an inflator disposed within the second airbag;
 - a gas supply pipe communicating at a first end with the inflator and at a second end with a first end of the first airbag;
 - a gas flow path communicating at a first end with a second end of the first airbag and at a second end with a the second airbag; and
 - a gas flow path temporarily closing portion disposed in an intermediate portion of the gas flow path for temporarily closing the gas flow path, the gas flow path temporarily closing portion being broken under internal pressure of the first airbag, when the internal

Appl. No. 10/652629
Supplemental Reply to Office action of 9/1/2005
Page 4

pressure of the first airbag reaches a predetermined value, allowing gas within the first airbag to flow through the gas flow path into the second airbag.

2. (Cancelled)

3. (Cancelled)

4. (Currently amended). The airbag device as set forth in claim 1, wherein said bag housing case includes a vent hole in communication with an internal space of the second airbag, and a said bag pressure relief mechanism has a closure member normally covering said vent hole to close the same, said closure member allowing ~~which allows~~ high pressure gas to escape from the second airbag through said vent hole ~~upon being when~~ the second airbag is struck by an the obstacle with such an impact as to cause an the internal pressure of the second airbag to exceed a threshold value increase up to the predetermined pressure, thereby reducing the impact forces on said obstacle.

5. (Currently amended). The airbag device as set forth in claim 4, wherein the ~~pressure relief mechanism~~ said closure member of the bag pressure relief mechanism comprises a scored plate which fractures when the internal pressure of the second airbag exceeds a ~~threshold value~~ said predetermined pressure thereby allowing said gas to discharge through said vent hole.

6. (Currently amended). The airbag device as set forth in claim 4, wherein ~~the pressure relief mechanism~~ said closure member of the bag pressure relief mechanism comprises a plate member biased against a seal by an elastic member, said plate member deflecting off said seal when the internal pressure of the second airbag exceeds a ~~threshold value~~ said predetermined pressure thereby allowing the gas to discharge through said vent hole.

7. (Currently amended). The airbag device as set forth in claim 4, wherein the ~~pressure relief mechanism~~ said closure member of the bag pressure relief mechanism

Appl. No. 10/652629
Supplemental Reply to Office action of 9/1/2005
Page 5

comprises an elastomeric material covering said vent hole which expands outwardly against an opposing piercing member and bursts open when the internal pressure of the second airbag exceeds ~~a threshold value~~ said predetermined pressure thereby allowing the gas to discharge through said vent hole.

8. (Currently amended). The airbag device as set forth in claim 4, wherein the ~~pressure relief mechanism~~ said closure member of the bag pressure relief mechanism comprises a thin plate welded to said bag housing over said vent hole which plastically deforms and detaches from said housing when the internal pressure of the second airbag exceeds ~~a threshold value~~ said predetermined pressure thereby allowing the gas to discharge through said vent hole.

9. (Currently amended). The airbag device as set forth in claim 4, wherein the ~~pressure relief mechanism~~ said closure member of the bag pressure relief mechanism comprises a plate spring biased against said vent hole which becomes elastically inverted away from said vent hole when the internal pressure of the second airbag exceeds ~~a threshold value~~ said predetermined pressure thereby allowing the gas to discharge through said vent hole.

10. (Currently amended). The airbag device as set forth in claim 4, wherein the ~~pressure relief mechanism~~ said closure member of the bag pressure relief mechanism comprises a ribbed plug member biased against said vent hole ~~whose~~ said vent hole having ribs which buckle when the internal pressure of the second airbag exceeds ~~a threshold value~~ said predetermined pressure thereby allowing the gas to discharge through said vent hole.

11. (Currently amended). The airbag device as set forth in claim 4, wherein the ~~pressure relief mechanism~~ said closure member of the bag pressure relief mechanism comprises a plug member having an annular seal inserted into the vent hole, said plug member being ejected from said vent hole when the internal pressure of the second airbag

Appl. No. 10/652629
Supplemental Reply to Office action of 9/1/2005
Page 6

exceeds ~~a threshold value~~ said predetermined pressure thereby allowing the gas to discharge through said vent hole.

12. (Currently amended). The airbag device as set forth in claim 1, wherein ~~said bag housing~~ said bag housing case includes a means for relieving pressure from the second airbag when ~~said airbag~~ said second airbag is struck by ~~an~~ the obstacle, thereby reducing the impact forces on said obstacle.